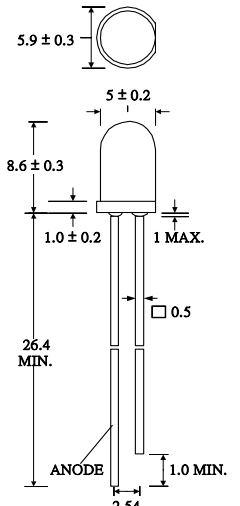


Data sheet

Infrared LED

EOLD-1200-525

Radiation	Type	Case
Infrared	InGaAs - based material, MQW	5 mm plastic lens

Description:	
	<p>High-power infrared LED in standard 5 mm package, leads without standoff</p> <p>For optical communications, safety equipment and automation</p> <p>Notes:</p> <p>All dimensions in mm Lead spacing is measured where the lead emerge from the package.</p>

Maximum Ratings

T_{amb}= 25°C, unless otherwise specified

Parameter	Test Conditions	Symbol	Value	Unit
Forward current		I _F	100	mA
Peak forward current	t _p ≤ 50 μs, t _p / T = 1/2	I _{FM}	200	mA
Power dissipation		P _D	150	mW
Reverse voltage	I _R = 10 μA	V _R	5	V
Operating temperature range		T _{amb}	-20 to +80	°C
Storage temperature range		T _{stg}	-55 to +85	°C
Lead soldering temperature	t < 5 s, 3 mm from case	T _{slg}	260	°C

Optical and Electrical Characteristics

T_{amb}= 25°C, unless otherwise specified

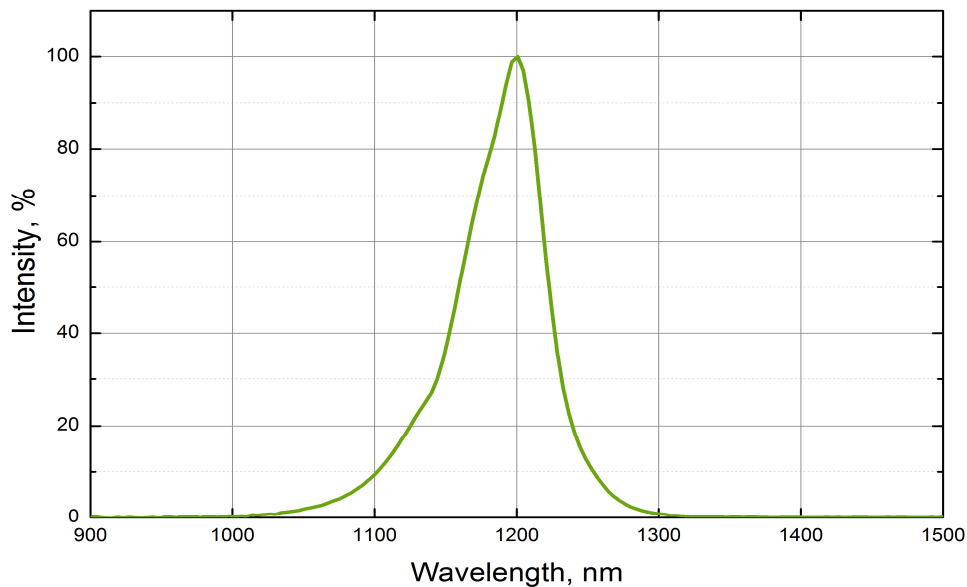


Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V _F	I _F = 20 mA		0.9		V
Radiant power	Φ _e	I _F = 20 mA		2.5		mW
Radiant intensity	I _e	I _F = 20 mA		7		mW/sr
Peak wavelength	λ _p	I _F = 20 mA		1200		nm
FWHM	Δλ _{0,5}	I _F = 20 mA		79		nm
Forward voltage	V _F	I _F = 100 mA		1.0	1.2	V
Radiant power	Φ _e	I _F = 100 mA		10		mW
Radiant intensity	I _e	I _F = 100 mA		27		mW/sr
Peak wavelength	λ _p	I _F = 100 mA		1200		nm
FWHM	Δλ _{0,5}	I _F = 100 mA		96		nm
Viewing angle	φ	I _F = 20 mA		30		deg.

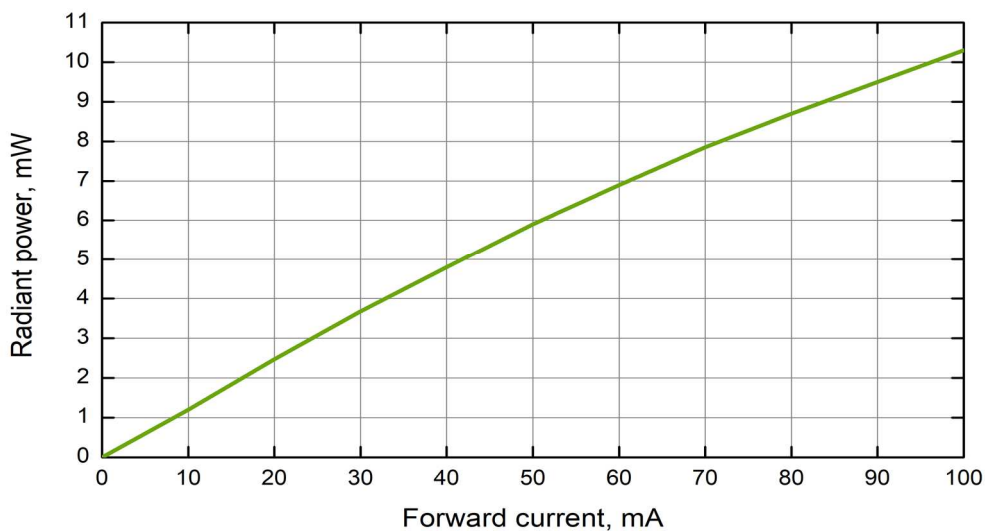
Data sheet

Infrared LED

EOLD-1200-525



Spectrum



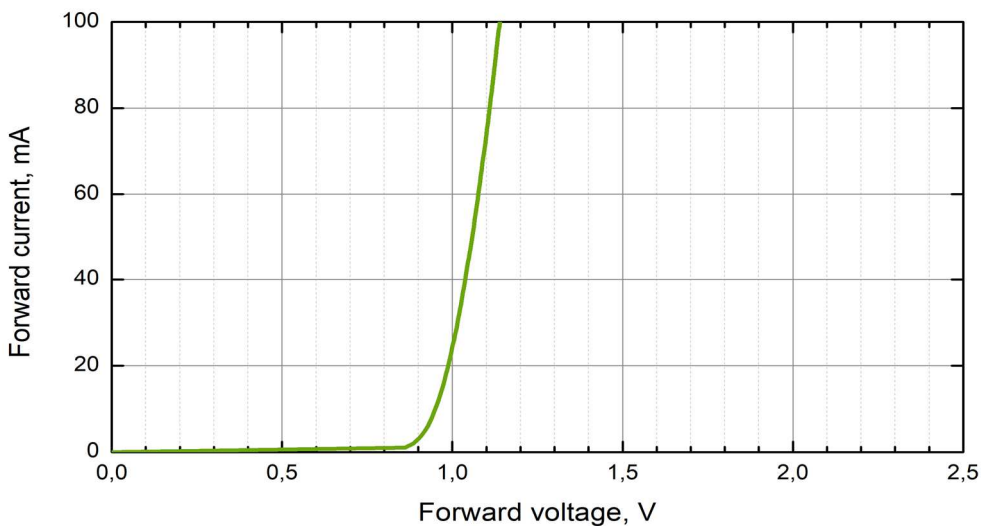
Radiant power vs. forward current



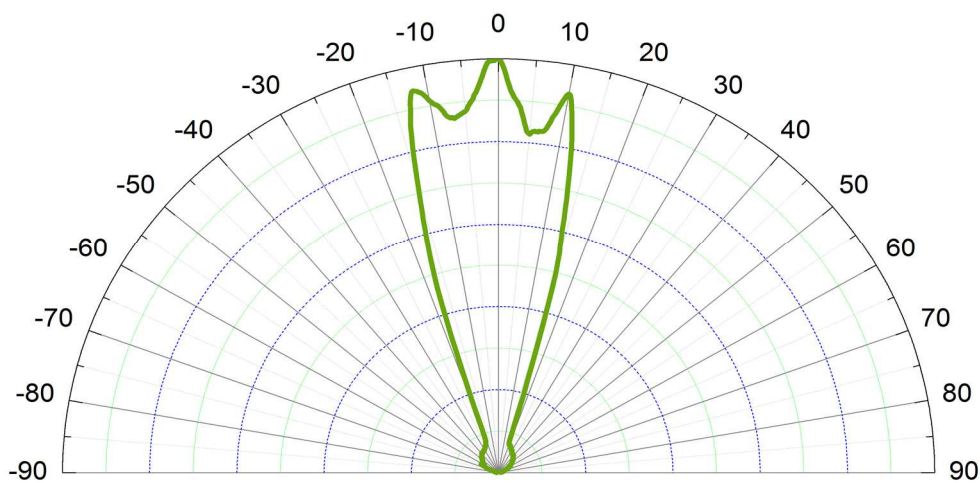
Data sheet

Infrared LED

EOLD-1200-525



Forward current vs. forward voltage



Radiation pattern

Art. No. 430 xxx



We reserve the right to make changes to improve technical design and may do so without further notice. Parameters can vary in different applications. All operating parameters must be validated for each customer application by the customer.